

CLAIM AMENDMENTS

The following listing of claims replaces all prior listings and versions of claims in this application.

1. (Currently Amended) A wager-based gaming machine comprising:

one or more speakers;

a master gaming controller adapted to process and facilitate the presentation of a wager-based game;

a digital sound system comprising:

at least one memory unit storing data, wherein said data comprises one or more wave files, one or more sets of wave table data, or both, and

a digital signal processor configured to produce audio output for said one or more speakers, wherein said digital signal processor is adapted to perform at least one function selected from the group consisting of generating original audio output and modifying existing sound files; ~~and~~

a programmable logic device interposed between the master gaming controller and the digital sound system such that said digital signal processor is unable to communicate directly to said master gaming controller; and

wherein said programmable logic device converts instructions from said master gaming controller to instructions that can be executed by said digital signal processor.

2. (Currently Amended) The gaming machine of claim 1, wherein ~~said digital sound system further comprises: the programmable logic device forms~~ an event sequencer interposed between the master gaming controller and the digital signal processor, ~~wherein said event sequencer~~

~~converts instructions from the master gaming controller to instructions that can be executed by the digital signal processor.~~

3. (Original) The gaming machine of claim 1, wherein said digital signal processor is configured to alter musical or tonal parameters while a sound file is playing.

4. (Original) The gaming machine of claim 1, wherein said digital signal processor is configured to synthesize music in real-time.

5. (Original) The gaming machine of claim 1, wherein said digital signal processor is configured to provide audio output tailored to a player currently using the gaming machine.

6. (Original) The gaming machine of claim 4, wherein said audio output is tailored by at least one or more parameters selected from the group consisting of language selection, gender selection, accent selection, and style selection.

7. (Original) The gaming machine of claim 1, wherein said digital signal processor is configured to recognize speech used by a player at or near the gaming machine.

8. (Original) The gaming machine of claim 1, wherein said digital sound system further comprises a microphone, as well as speech recognition logic implemented on the digital signal processor.

9. (Original) The gaming machine of claim 1, wherein said digital sound system comprises additional memory for storing audio processing algorithms for execution on the digital signal processor.

10. (Original) The gaming machine of claim 1, wherein said event sequencer is installed in a manner that prevents the digital signal processor from effecting operation of the master gaming controller.

11. (Previously Presented) A wager-based gaming machine, comprising:

a central processing unit adapted to process and facilitate the presentation of a wager-based game;

a programmable logic device separate from and connected to said central processing unit;
and

a digital signal processor adapted to generate and control digital output, said digital signal processor being separate from and connected to said programmable logic device,

wherein said programmable logic device is interposed between said central processing unit and said digital signal processor, such that said digital signal processor is unable to communicate directly to said central processing unit,

and wherein said programmable logic device converts instructions from said central processing unit to instructions that can be executed by said digital signal processor.

12. (Previously Presented) The wager-based gaming machine of claim 11, wherein said digital signal processor is adapted to generate and control audio output for one or more speakers.

13. (Previously Presented) The wager-based gaming machine of claim 12, wherein said digital signal processor is configured to alter musical or tonal parameters while a sound file is playing.

14. (Previously Presented) The wager-based gaming machine of claim 12, wherein the digital signal processor is configured to provide audio output tailored to a current user of the device.

15. (Previously Presented) The wager-based gaming machine of claim 11, wherein said programmable logic device comprises an event sequencer.

16. (Previously Presented) The wager-based gaming machine of claim 11, wherein said central processing unit comprises a master gaming controller.

17. (Previously Presented) A method of providing sound in a wager-based gaming machine, comprising:

providing a central processing unit adapted to process and facilitate the presentation of a wager-based game;

providing a programmable logic device separate from and connected to said central processing unit;

providing a digital signal processor adapted to generate and control audio output for one or more speakers, said digital signal processor being separate from and connected to said programmable logic device;

interposing said programmable logic device between said central processing unit and said digital signal processor, such that the digital signal processor is unable to communicate directly to the central processing unit; and

programming said programmable logic device to convert instructions from said central processing unit to instructions that can be executed by said digital signal processor.

18. (Previously Presented) The method of claim 17, wherein the digital signal processor is configured to provide audio output tailored to a current user of the wager-based gaming machine.

19. (Original) The method of claim 17, wherein said programmable logic device comprises an event sequencer.

20. (Original) The method of claim 17, wherein said central processing unit comprises a master gaming controller.

21-22. (Cancelled)

23. (New) The gaming machine of claim 11, wherein said digital signal processor is configured to synthesize music in real-time.

24. (New) The gaming machine of claim 23, wherein said audio output is tailored by at least one or more parameters selected from the group consisting of language selection, gender selection, accent selection, and style selection.

25. (New) The gaming machine of claim 11, wherein said digital signal processor is configured to recognize speech used by a player at or near the gaming machine.

26. (New) The gaming machine of claim 11, wherein said digital sound system further comprises a microphone, as well as speech recognition logic implemented on the digital signal processor.

27. (New) The gaming machine of claim 11, wherein said digital sound system comprises additional memory for storing audio processing algorithms for execution on the digital signal processor.

28. (New) The gaming machine of claim 11, wherein said event sequencer is installed in a manner that prevents the digital signal processor from effecting operation of the master gaming controller.